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OM protein - protein search, using sw model

Run on: May 17, 2004, 17:49:00 ; Search time 18.3922 Seconds
(without alignments)
188.066 Million cell updates/sec

Title: US-09-872-852-2
Perfect score: 367
Sequence: 1 MRLHYLLFLLFLVFPVPG.....KEQIGKSTRGRKCRKK 67

Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA: *
1: /cgn2_6/ptodata/2/1aa/5A_COMB.pep: *
2: /cgn2_6/ptodata/2/1aa/5B_COMB.pep: *
3: /cgn2_6/ptodata/2/1aa/6A_COMB.pep: *
4: /cgn2_6/ptodata/2/1aa/6B_COMB.pep: *
5: /cgn2_6/ptodata/2/1aa/PTCTUS_COMB.pep: *
6: /cgn2_6/ptodata/2/1aa/backfilest.pep: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	367	100.0	67	4	US-09-636-399A-10
2	357	97.3	65	4	US-09-636-399A-2
3	241	65.7	49	4	US-09-636-399A-35
4	236	64.3	48	4	US-09-636-399A-36
5	234	63.8	48	4	US-09-636-399A-37
6	229	62.4	47	4	US-09-636-399A-38
7	228	62.1	47	4	US-09-636-399A-39
8	223	60.8	46	4	US-09-636-399A-40
9	220	59.9	46	4	US-09-636-399A-41
10	215	58.6	45	4	US-09-636-399A-42
11	214	58.3	45	4	US-09-636-399A-43
12	209	56.9	44	4	US-09-636-399A-44
13	208	56.7	44	4	US-09-636-399A-20
14	208	56.7	44	4	US-09-636-399A-21
15	204	55.6	43	4	US-09-636-399A-23
16	204	55.6	43	4	US-09-636-399A-24
17	203	55.3	43	4	US-09-636-399A-21
18	203	55.3	43	4	US-09-636-399A-21
19	200	54.5	42	4	US-09-636-399A-26
20	200	54.5	42	4	US-09-636-399A-26
21	199	54.2	42	4	US-09-636-399A-24
22	199	54.2	42	4	US-09-636-399A-24
23	198	54.0	42	4	US-09-636-399A-22
24	195	53.1	41	4	US-09-636-399A-27
25	195	53.1	41	4	US-09-636-399A-27
26	194	52.9	41	4	US-09-636-399A-25
27	194	52.9	41	4	US-09-636-399A-29

28	194	52.9	41	4	US-09-636-399A-51	Sequence 51, Appl
29	190	51.8	40	4	US-09-636-399A-28	Sequence 28, Appl
30	189	51.5	40	4	US-09-636-399A-30	Sequence 30, Appl
31	189	51.5	40	4	US-09-636-399A-32	Sequence 32, Appl
32	189	51.5	40	4	US-09-636-399A-52	Sequence 52, Appl
33	189	51.5	40	4	US-09-636-399A-53	Sequence 53, Appl
34	185	50.4	39	4	US-09-636-399A-19	Sequence 19, Appl
35	185	50.4	39	4	US-09-636-399A-55	Sequence 55, Appl
36	184	50.1	39	4	US-09-636-399A-33	Sequence 33, Appl
37	184	50.1	39	4	US-09-636-399A-54	Sequence 54, Appl
38	184	50.1	39	4	US-09-636-399A-59	Sequence 59, Appl
39	182	49.6	38	4	US-09-636-399A-57	Sequence 57, Appl
40	182	49.6	38	4	US-09-636-399A-18	Sequence 18, Appl
41	180	49.0	38	4	US-09-636-399A-56	Sequence 56, Appl
42	180	49.0	38	4	US-09-636-399A-34	Sequence 34, Appl
43	179	48.8	36	4	US-09-636-399A-60	Sequence 60, Appl
44	177	48.2	37	4	US-09-636-399A-58	Sequence 58, Appl
45	177	48.2	37	4	US-09-636-399A-58	Sequence 58, Appl

ALIGNMENTS

RESULT 1
US-09-636-399A-10
Sequence 10, Application US/09636399A
Patent No. 6576755
GENERAL INFORMATION:
APPLICANT: Adlery, David A.
APPLICANT: HOLLOWAY, James L.
APPLICANT: Baird, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2
CURRENT APPLICATION NUMBER: US/09/636,399A
CURRENT FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 10
LENGTH: 67
TYPE: PRT
ORGANISM: Homo sapiens
US-09-636-399A-10

Query Match	100.0%	Score 367	DB 4	Length 67
Best Local Similarity	100.0%	Pred. No. 2.4e-38	Indels 0	Gaps 0
Matches 67	Conservative	0	Mismatches	0
QY	1	MRLHYLLFLLFLVFPVPGHGIINTLQKYCRVGRGCAVSLCPKEQIGKSTRGR	60	
DB	1	MRLHYLLFLLFLVFPVPGHGIINTLQKYCRVGRGCAVSLCPKEQIGKSTRGR	60	
QY	61	KCCRRKK 67		
DB	61	KCCRRKK 67		
RESULT 2				
US-09-636-399A-2				
Sequence 2, Application US/09636399A				
Patent No. 6576755				
GENERAL INFORMATION:				
APPLICANT: Adlery, David A.				
APPLICANT: HOLLOWAY, James L.				

no other administration
(considered ground)

APPLICANT: Bairdur, Nand
APPLICANT: Beigel-Orme, Stephanie
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2
CURRENT APPLICATION NUMBER: US/09/636,399A
CURRENT FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 2
LENGTH: 65
TYPE: PRT
ORGANISM: Homo sapiens
US-09-636-399A-2

Query Match 97.3%; Score 357; DB 4; Length 65;
Best Local Similarity 100.0%; Pred. No. 4e-37;
Matches 65; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRHYLFLFLVPGHGIINTLOKYYCRVGRCAVLSCLPKKEIGKSTRGR 60
DB 1 MRHYLFLFLVPGHGIINTLOKYYCRVGRCAVLSCLPKKEIGKSTRGR 60

QY 61 KCCRR 65
DB 61 KCCRR 65

RESULT 3
US-09-636-399A-35
Sequence 35, Application US/09636399A
Patent No. 6576755
GENERAL INFORMATION:
APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Bairdur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2
CURRENT APPLICATION NUMBER: US/09/636,399A
CURRENT FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 35
LENGTH: 49
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Defensin polypeptide
NAME/KEY: VARIANT
LOCATION: (45)...(45)
OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met
US-09-636-399A-35

Query Match 65.7%; Score 241; DB 4; Length 49;
Best Local Similarity 91.8%; Pred. No. 6.7e-23;

Matches 45; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
QY 19 PCHGIIINTLOKYYCRVGRCAVLSCLPKKEIGKSTRGRKCCRRK 67
DB 1 PCHGIIINTLOKYYCRVGRCAVLSCLPKKEIGKSTRGRKCCRRK 49

RESULT 4
US-09-636-399A-36
Sequence 36, Application US/09636399A
Patent No. 6576755
GENERAL INFORMATION:
APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Bairdur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2
CURRENT APPLICATION NUMBER: US/09/636,399A
CURRENT FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 36
LENGTH: 48
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Defensin polypeptide
NAME/KEY: VARIANT
LOCATION: (45)...(45)
OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met
US-09-636-399A-36

Query Match 64.3%; Score 236; DB 4; Length 48;
Best Local Similarity 91.7%; Pred. No. 2.7e-22;
Matches 44; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 19 PCHGIIINTLOKYYCRVGRCAVLSCLPKKEIGKSTRGRKCCRRK 66
DB 1 PCHGIIINTLOKYYCRVGRCAVLSCLPKKEIGKSTRGRKCCRRK 48

RESULT 5
US-09-636-399A-37
Sequence 37, Application US/09636399A
Patent No. 6576755
GENERAL INFORMATION:
APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Bairdur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2
CURRENT APPLICATION NUMBER: US/09/636,399A
CURRENT FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10

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; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 37
; LENGTH: 48
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (44)...(44)
; OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met
US-09-636-399A-37

Query Match
Best Local Similarity 63.8%; Score 234; DB 4; Length 48;
Best Local Similarity 91.7%; Pred. No. 4,9e-22;
Matches 44; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 20 GHGIIINTLQKYCYRVGRGCAVLSCLPKEQIGKSTGRKCCRRK 67
1 GHGIIINTLQLYCYRVGRGCAVLSCLPKECIGKSTGRKCCRRK 48

RESULT 6
US-09-636-399A-38
; Sequence 38, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 47
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (44)...(44)
; OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met.
US-09-636-399A-38

Query Match
Best Local Similarity 62.4%; Score 229; DB 4; Length 47;
Best Local Similarity 91.5%; Pred. No. 2e-21;
Matches 43; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 20 GHGIIINTLQKYCYRVGRGCAVLSCLPKEQIGKSTGRKCCRRK 66
1 GHGIIINTLQLYCYRVGRGCAVLSCLPKECIGKSTGRKCCRRK 47

RESULT 7
US-09-636-399A-39
; Sequence 39, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
```

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; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 39
; LENGTH: 47
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (43)...(43)
; OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met
US-09-636-399A-39

Query Match
Best Local Similarity 62.1%; Score 228; DB 4; Length 47;
Best Local Similarity 91.5%; Pred. No. 2,6e-21;
Matches 43; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 21 GHGIIINTLQKYCYRVGRGCAVLSCLPKEQIGKSTGRKCCRRK 67
1 GHGIIINTLQLYCYRVGRGCAVLSCLPKECIGKSTGRKCCRRK 47

RESULT 8
US-09-636-399A-40
; Sequence 40, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 40
; LENGTH: 46
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (43)...(43)
; OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met
US-09-636-399A-40

Query Match
Best Local Similarity 60.8%; Score 223; DB 4; Length 46;
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Best Local Similarity 91.3%; Pred. No. 1.1e-20;
Matches 42; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 21 HGIIINTLQKYCRVGRGCAVLSCLPKKEQIGKCGTRGKCCRRK 66
DB 1 GGIINTLQLYCYCRVGRGCAVLSCLPKKECIGKMGSTRGKCKRRK 46

RESULT 9

US-09-636-399A-41
Sequence 41, Application US/09636399A
Patent No. 6576755

GENERAL INFORMATION:

APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baindur, Nand

APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.

TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2

CURRENT APPLICATION NUMBER: US/09/636,399A
CURRENT FILING DATE: 2000-08-10

PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09

PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05

PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10

PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10

NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 41

LENGTH: 46

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:
NAME/KEY: VARIANT
LOCATION: (42)...(42)

OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met

US-09-636-399A-41
Query Match 59.9%; Score 220; DB 4; Length 46;
Best Local Similarity 91.3%; Pred. No. 2.5e-20;
Matches 42; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 22 GGIINTLQKYCRVGRGCAVLSCLPKKEQIGKCGTRGKCCRRK 67
DB 1 GGIINTLQLYCYCRVGRGCAVLSCLPKKECIGKMGSTRGKCKRRK 46

RESULT 10

US-09-636-399A-42
Sequence 42, Application US/09636399A
Patent No. 6576755

GENERAL INFORMATION:

APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baindur, Nand

APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.

TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2

CURRENT APPLICATION NUMBER: US/09/636,399A
CURRENT FILING DATE: 2000-08-10

PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09

PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05

PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10

PRIOR APPLICATION NUMBER: 09/636,399

PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 42

LENGTH: 45

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:
NAME/KEY: VARIANT
LOCATION: (42)...(42)

OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met

US-09-636-399A-42
Query Match 58.6%; Score 215; DB 4; Length 45;
Best Local Similarity 91.1%; Pred. No. 1e-19;
Matches 41; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 22 GGIINTLQKYCRVGRGCAVLSCLPKKEQIGKCGTRGKCCRRK 66
DB 1 GGIINTLQLYCYCRVGRGCAVLSCLPKKECIGKMGSTRGKCKRRK 45

RESULT 11

US-09-636-399A-43
Sequence 43, Application US/09636399A
Patent No. 6576755

GENERAL INFORMATION:

APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baindur, Nand

APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.

TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2

CURRENT APPLICATION NUMBER: US/09/636,399A
CURRENT FILING DATE: 2000-08-10

PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09

PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05

PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10

PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10

NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 43

LENGTH: 45

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:
NAME/KEY: VARIANT
LOCATION: (41)...(41)

OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met

US-09-636-399A-43
Query Match 58.3%; Score 214; DB 4; Length 45;
Best Local Similarity 91.1%; Pred. No. 1.4e-19;
Matches 41; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 23 GGIINTLQKYCRVGRGCAVLSCLPKKEQIGKCGTRGKCCRRK 67
DB 1 GGIINTLQLYCYCRVGRGCAVLSCLPKKECIGKMGSTRGKCKRRK 45

RESULT 12

US-09-636-399A-44
Sequence 44, Application US/09636399A
Patent No. 6576755

GENERAL INFORMATION:
APPLICANT: Adler, David A.

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Yy      2 11NTLQKYYCRVRRGRCNAVSLCPKEBQIKGKSTRGRKCKRRKK 67
Db      1 11NTLQKYYCRVRRYRCNAVSLCPKEBQIKGKSTRIRKCKRRKK 44

RESULT 14
US-09-636-399A-45
Sequence 45, Application US/09636399A
Patent No. 6576755
GENERAL INFORMATION:
APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baidur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2
CURRENT APPLICATION NUMBER: US/09/636,399A
CURRENT FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 45
LENGTH: 44
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Defensin polypeptide
NAME/KEY: VARIANT
LOCATION: (40)...(40)
OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, Met.
US-09-636-399A-45

Query Match      56.7%; Score 208; DB 4; Length 44;
Best Local Similarity 90.9%; Pred. No. 7.3e-19;
Matches 40; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy      24 11NTLQKYYCRVRRGRCNAVSLCPKEBQIKGKSTRGRKCKRRKK 67
Db      1 11NTLQYYCRVRRGRCNAVSLCPKEBQIKGKSTRIRKCKRRKK 44

RESULT 15
US-09-636-399A-23
Sequence 23, Application US/09636399A
Patent No. 6576755
GENERAL INFORMATION:
APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baidur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2
CURRENT APPLICATION NUMBER: US/09/636,399A
CURRENT FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72

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SOFTWARE: FastSQ for Windows Version 3.0
SEQ ID NO: 23
LENGTH: 43
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Defensin polypeptide
us-09-636-399A-23

Query Match 55.6%; Score 204; DB 4; Length 43;
Best Local Similarity 90.7%; Pred. No. 2.2e-18;
Matches 39; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 25 INTLQKYYCVRVGGRCVAVLSCLPKKEQIGKCGSTRGRKCCRKK 67
DB 1 INTLQKYYCVRVRYRCVAVLSCLPKKEQIYKCGSTRGRKCCRKK 43

Search completed: May 17, 2004, 18:00:26
Job time : 18.3922 secs

Tue May 18 12:11:21 2004

us-09-872-852-2.rapb

Page 1

GenCore version 5.1.6
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OW protein - protein search, using sw model

Run on: May 17, 2004, 17:58:35 ; Search time 47.2941 Seconds

(without alignments)
394.204 Million cell updates/sec

Title: US-09-872-852-2

Sequence: 1 MRLHYLLFLLFLVFPVPG.....KEQIGKSTGRKCRKK 67

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1145568 seqs, 278261457 residues

Total number of hits satisfying chosen parameters: 1145568

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

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7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
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11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
13: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep.*
14: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	367	100.0	67	US-09-917-340-52	Sequence 52, Appl
2	367	100.0	67	US-09-917-340-72	Sequence 72, Appl
3	367	100.0	67	US-09-872-852-2	Sequence 2, Appl
4	367	100.0	67	US-10-091-166B-10	Sequence 10, Appl
5	367	100.0	67	US-10-272-121-10	Sequence 10, Appl
6	367	100.0	67	US-10-409-366-10	Sequence 10, Appl
7	367	100.0	67	US-10-409-532-10	Sequence 10, Appl
8	367	100.0	65	US-10-091-166B-2	Sequence 2, Appl
9	357	97.3	65	US-10-272-121-2	Sequence 2, Appl
10	357	97.3	65	US-10-409-366-2	Sequence 2, Appl
11	357	97.3	65	US-10-409-532-2	Sequence 2, Appl
12	250	68.1	45	US-09-872-852-4	Sequence 4, Appl
13	241	65.7	49	US-10-091-166B-35	Sequence 35, Appl
14	241	65.7	49	US-10-272-121-35	Sequence 35, Appl
15	241	65.7	49	US-10-409-366-35	Sequence 35, Appl

16	241	65.7	49	US-10-409-532-35	Sequence 35, Appl
17	236	64.3	48	US-10-091-166B-36	Sequence 36, Appl
18	236	64.3	48	US-10-272-121-36	Sequence 36, Appl
19	236	64.3	48	US-10-409-366-36	Sequence 36, Appl
20	236	64.3	48	US-10-409-532-36	Sequence 36, Appl
21	234	63.8	48	US-10-091-166B-37	Sequence 37, Appl
22	234	63.8	48	US-10-272-121-37	Sequence 37, Appl
23	234	63.8	48	US-10-409-366-37	Sequence 37, Appl
24	234	63.8	48	US-10-409-532-37	Sequence 37, Appl
25	230	62.7	41	US-09-872-852-3	Sequence 3, Appl
26	229	62.4	47	US-10-091-166B-38	Sequence 38, Appl
27	229	62.4	47	US-10-272-121-38	Sequence 38, Appl
28	229	62.4	47	US-10-409-366-38	Sequence 38, Appl
29	229	62.4	47	US-10-409-532-38	Sequence 38, Appl
30	228	62.1	47	US-10-091-166B-39	Sequence 39, Appl
31	228	62.1	47	US-10-272-121-39	Sequence 39, Appl
32	228	62.1	47	US-10-409-366-39	Sequence 39, Appl
33	228	62.1	47	US-10-409-532-39	Sequence 39, Appl
34	228	60.8	46	US-10-091-166B-40	Sequence 40, Appl
35	223	60.8	46	US-10-272-121-40	Sequence 40, Appl
36	223	60.8	46	US-10-409-366-40	Sequence 40, Appl
37	223	60.8	46	US-10-409-532-40	Sequence 40, Appl
38	220	59.9	46	US-10-091-166B-41	Sequence 41, Appl
39	220	59.9	46	US-10-272-121-41	Sequence 41, Appl
40	220	59.9	46	US-10-409-366-41	Sequence 41, Appl
41	220	59.9	46	US-10-409-532-41	Sequence 41, Appl
42	215	58.6	45	US-10-091-166B-42	Sequence 42, Appl
43	215	58.6	45	US-10-272-121-42	Sequence 42, Appl
44	215	58.6	45	US-10-409-366-42	Sequence 42, Appl
45	215	58.6	45	US-10-409-532-42	Sequence 42, Appl

ALIGNMENTS

US-09-917-340-52	US-10-409-532-35
Sequence 52, Application US/09917340	Sequence 35, Appl
Patent No. US20020090369A1	
GENERAL INFORMATION:	
APPLICANT: Murphy, Christopher J.	
APPLICANT: McNulty, Jonathan F.	
APPLICANT: Reid, Ted W.	
TITLE OF INVENTION: Transplant Media	
FILE REFERENCE: TPLANT-06468	
CURRENT APPLICATION NUMBER: US/09/917,340	
CURRENT FILING DATE: 2001-07-29	
PRIOR FILING DATE: 2000-07-28	
PRIOR APPLICATION NUMBER: 60/249,602	
PRIOR FILING DATE: 2000-11-17	
PRIOR APPLICATION NUMBER: 60/290,932	
PRIOR FILING DATE: 2001-05-15	
NUMBER OF SEQ ID NOS: 96	
SOFTWARE: PatentIn Ver. 2.0	
SEQ ID NO 52	
LENGTH: 67	
TYPE: PRT	
ORGANISM: Homo sapiens	
US-09-917-340-52	
Query Match	100.0%; Score 367; DB 9; Length 67;
Best Local Similarity	100.0%; Pred. No. 2.7e-37;
Matches 67; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
1 MRLHYLLFLLFLVFPVPGHGIINTLQYKRYRGVRCVAVSCIPKEROIKCSTRGR 60	
1 MRLHYLLFLLFLVFPVPGHGIINTLQYKRYRGVRCVAVSCIPKEROIKCSTRGR 60	
61 KCGRKK 67	
61 KCGRKK 67	

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Query Match      100.0%; Score 367; DB 9; Length 67;
Best Local Similarity 100.0%; Pred. No. 2.7e-37;
Matches 67; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 MRIHLLPALFLVPPVHGGLINTLQKKYKCRVRGGCATLSQLPKEDQKCGKSTGR 60
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Query Match Similarity      100.0%; Score 367; DB 14; Length 67;
Best Local Similarity      100.0%; Pred. No. 2,7e-37;
Matches 67; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 MRIYYLLFALLFLVLPVPHGGGINTLQKYCCYRGRCAVSLCPKEQIGKSTGR 60
DB      1 MRIYYLLFALLFLVLPVPHGGGINTLQKYCCYRGRCAVSLCPKEQIGKSTGR 60
QY      61 KCCRRKK 67
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DB      61 KCCRRKK 67

RESULT 5
US-10-272-121-10
; Sequence 10, Application US/10272121
; Publication No. US20030157638A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Beisgel, Nand
; APPLICANT: Sheppard, Paul O.
; APPLICANT: Stephanie
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44D2
; CURRENT APPLICATION NUMBER: US/10/272,121
; CURRENT FILING DATE: 2002-10-15
; PRIOR APPLICATION NUMBER: US 09/636,359
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: US 09/344,097
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: US 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: US 60/064,294

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Query Match          97.3%; Score 357; DB 14; Length 65;
Best Local Similarity 100.0%; Pred. No. 4.3e-36;
Matches 65; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRHYLLFALLFLFVVPVPGHGIINTLQKYYCVRVGRCAVLSCLPKKEQIGKSTGR 60
DB 1 MRHYLLFALLFLFVVPVPGHGIINTLQKYYCVRVGRCAVLSCLPKKEQIGKSTGR 60

QY 61 KCCRR 65
DB 61 KCCRR 65

RESULT 9
US-10-272-121-2
; Sequence 2, Application US/10272121
; Publication No. US20030157638A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Shepard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44D2
; CURRENT APPLICATION NUMBER: US/10/272,121
; CURRENT FILING DATE: 2002-10-15
; PRIOR APPLICATION NUMBER: US 09/636,399
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: US 09/344,097
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: US 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: US 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: US 60/058,335
; PRIOR FILING DATE: 1997-09-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 65
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-272-121-2

Query Match          97.3%; Score 357; DB 14; Length 65;
Best Local Similarity 100.0%; Pred. No. 4.3e-36;
Matches 65; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRHYLLFALLFLFVVPVPGHGIINTLQKYYCVRVGRCAVLSCLPKKEQIGKSTGR 60
DB 1 MRHYLLFALLFLFVVPVPGHGIINTLQKYYCVRVGRCAVLSCLPKKEQIGKSTGR 60

QY 61 KCCRR 65
DB 61 KCCRR 65

RESULT 10
US-10-409-366-2
; Sequence 2, Application US/10409366
; Publication No. US20030166912A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Shepard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/10/409,366
; CURRENT FILING DATE: 2003-04-07
; PRIOR APPLICATION NUMBER: US/09/636,399A
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; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 65
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-409-366-2

Query Match          97.3%; Score 357; DB 14; Length 65;
Best Local Similarity 100.0%; Pred. No. 4.3e-36;
Matches 65; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRHYLLFALLFLFVVPVPGHGIINTLQKYYCVRVGRCAVLSCLPKKEQIGKSTGR 60
DB 1 MRHYLLFALLFLFVVPVPGHGIINTLQKYYCVRVGRCAVLSCLPKKEQIGKSTGR 60

QY 61 KCCRR 65
DB 61 KCCRR 65

RESULT 11
US-10-409-532-2
; Sequence 2, Application US/10409532
; Publication No. US20030166913A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Shepard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/10/409,532
; CURRENT FILING DATE: 2003-04-07
; PRIOR APPLICATION NUMBER: US/09/636,399A
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 65
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-409-532-2

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Matches 65; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRHYLLFALLFLFVVPVPGHGIINTLQKYYCVRVGRCAVLSCLPKKEQIGKSTGR 60
DB 1 MRHYLLFALLFLFVVPVPGHGIINTLQKYYCVRVGRCAVLSCLPKKEQIGKSTGR 60

QY 61 KCCRR 65
DB 61 KCCRR 65
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RESULT 12
US-09-872-852-4
; Sequence 4, Application US/09872852
; Patent No. US20020115602A1
; GENERAL INFORMATION:
; APPLICANT: MCCRAY JR, PAUL B.
; APPLICANT: TACK, BRIAN
; APPLICANT: JIA, HONG PENG
; APPLICANT: SCHUTTE, BRIAN C.
; TITLE OF INVENTION: HUMAN BETA-DEFENSIN-3 (HBD-3), A HIGHLY CATIONIC
; TITLE OF INVENTION: BETA-DEFENSIN ANTIMICROBIAL PEPTIDE
; FILE REFERENCE: IOWA:031US
; CURRENT APPLICATION NUMBER: US/09/872,852
; CURRENT FILING DATE: 2001-06-01
; PRIOR APPLICATION NUMBER: 60/208,792
; PRIOR FILING DATE: 2000-06-01
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patent Ver. 2.1
; SEQ ID NO 4
; LENGTH: 45
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-872-852-4

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Best Local Similarity 100.0%; Pred. No. 3.6e-23;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 13
US-10-091-166B-35
; Sequence 35, Application US/10091166B
; Publication No. US20030143671A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44D1
; CURRENT APPLICATION NUMBER: US/10/091,166B
; CURRENT FILING DATE: 2002-03-05
; PRIOR APPLICATION NUMBER: US 09/636,399
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: US 09/344,097
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: US 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: US 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: US 60/058,335
; PRIOR FILING DATE: 1997-09-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 35
; LENGTH: 49
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; TITLE OF INVENTION: Defensin polypeptide
; LOCATION: (45)...(45)

RESULT 14
US-10-272-121-35
; Sequence 35, Application US/10272121
; Publication No. US20030157638A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44D2
; CURRENT APPLICATION NUMBER: US/10/272,121
; CURRENT FILING DATE: 2002-10-15
; PRIOR APPLICATION NUMBER: US 09/636,399
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: US 09/344,097
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: US 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: US 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: US 60/058,335
; PRIOR FILING DATE: 1997-09-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 35
; LENGTH: 49
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (45)...(45)
; OTHER INFORMATION: leucine, isoleucine, valine, phenylalanine, or
; OTHER INFORMATION: methionine
US-10-272-121-35

Query Match      65.7%; Score 241; DB 14; Length 49;
Best Local Similarity 91.8%; Pred. No. 5e-22;
Matches 45; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      19 PGGGIINTLQKYYCVRGRCVAVSLCPKEQIGKSTRGKCCRRKK 67
DB      1 PGGGIINTLQKYYCVRGRCVAVSLCPKEQIGKSTRGKCCRRKK 49

RESULT 15
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; Sequence 35, Application US/10409366
; Publication No. US2003016912A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
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Tue May 18 12:11:21 2004

us-09-872-852-2.rapb

Page 6

; CURRENT APPLICATION NUMBER: US/10/409,366
; CURRENT FILING DATE: 2003-04-07
; PRIOR APPLICATION NUMBER: US/09/636,399A
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 49
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (45)...(45)
; OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met
US-10-409-366-35

Query Match 65.7%; Score 241; DB 14; Length 49;
Best Local Similarity 91.8%; Pred. No. Se-22; 4; Indels 0; Gaps 0;
Matches 45; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
QY 19 PGGGIINTLQKYYCRVGRGCAVLSCLPKEQIGKCKSTRGRKCRKK 67
DB 1 PGGGIINTLQLYYCRVGRGCAVLSCLPKECIGKCKSTRGRKCRKK 49

Search completed: May 17, 2004, 18:11:57
Job time : 47.2941 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: May 17, 2004, 17:49:00 ; Search time 12.3529 Seconds

(without alignments)
188.066 Million cell updates/sec

Title: US-09-872-852-4

Perfect score: 250

Sequence: 1 GIINTLQKYYCVRGRCVAV.....KEQDQKCTRGKRCRRKK 45

Scoring table:

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Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA.*
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3: /cgn2_6/ptodata/2/1aa/6A.COMB.pep.*
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6: /cgn2_6/ptodata/2/1aa/backfile1.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	250	100.0	67	4	US-09-636-399A-10
2	240	96.0	65	4	US-09-636-399A-2
3	214	85.6	45	4	US-09-636-399A-43
4	214	85.6	46	4	US-09-636-399A-41
5	214	85.6	47	4	US-09-636-399A-39
6	214	85.6	48	4	US-09-636-399A-37
7	214	85.6	44	4	US-09-636-399A-35
8	209	83.6	44	4	US-09-636-399A-44
9	209	83.6	45	4	US-09-636-399A-42
10	209	83.6	46	4	US-09-636-399A-40
11	209	83.6	47	4	US-09-636-399A-38
12	209	83.6	48	4	US-09-636-399A-36
13	208	83.2	44	4	US-09-636-399A-20
14	208	83.2	44	4	US-09-636-399A-45
15	204	81.6	43	4	US-09-636-399A-23
16	204	81.6	43	4	US-09-636-399A-47
17	203	81.2	43	4	US-09-636-399A-21
18	203	81.2	43	4	US-09-636-399A-46
19	200	80.0	42	4	US-09-636-399A-26
20	200	80.0	42	4	US-09-636-399A-49
21	199	79.6	42	4	US-09-636-399A-24
22	199	79.6	42	4	US-09-636-399A-48
23	198	79.2	42	4	US-09-636-399A-22
24	195	78.0	41	4	US-09-636-399A-27
25	195	78.0	41	4	US-09-636-399A-50
26	194	77.6	41	4	US-09-636-399A-25
27	194	77.6	41	4	US-09-636-399A-29

28	194	77.6	41	4	US-09-636-399A-51	Sequence 51, App1
29	190	76.0	40	4	US-09-636-399A-28	Sequence 28, App1
30	189	75.6	40	4	US-09-636-399A-30	Sequence 30, App1
31	189	75.6	40	4	US-09-636-399A-32	Sequence 32, App1
32	189	75.6	40	4	US-09-636-399A-52	Sequence 52, App1
33	189	75.6	40	4	US-09-636-399A-19	Sequence 19, App1
34	185	74.0	39	4	US-09-636-399A-55	Sequence 55, App1
35	185	74.0	39	4	US-09-636-399A-31	Sequence 31, App1
36	184	73.6	39	4	US-09-636-399A-33	Sequence 33, App1
37	184	73.6	39	4	US-09-636-399A-54	Sequence 54, App1
38	184	73.6	39	4	US-09-636-399A-59	Sequence 59, App1
39	182	72.8	38	4	US-09-636-399A-57	Sequence 57, App1
40	182	72.8	38	4	US-09-636-399A-18	Sequence 18, App1
41	180	72.0	38	4	US-09-636-399A-56	Sequence 56, App1
42	180	72.0	38	4	US-09-636-399A-34	Sequence 34, App1
43	179	71.6	38	4	US-09-636-399A-60	Sequence 60, App1
44	177	70.8	36	4	US-09-636-399A-58	Sequence 58, App1
45	177	70.8	37	4	US-09-636-399A-58	Sequence 58, App1

ALIGNMENTS

```
RESULT 1
US-09-636-399A-10
Sequence 10, Application US/09636399A
Patent No. 6576755
GENERAL INFORMATION:
APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baintur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2
CURRENT APPLICATION NUMBER: US/09/636,399A
CURRENT FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 10
LENGTH: 67
TYPE: PRT
ORGANISM: Homo sapiens
US-09-636-399A-10
Query Match 100.0%; Score 250; DB 4; Length 67;
Best Local Similarity 100.0%; Pred. No. 2.8e-24;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
CY 1 GIINTLQKYYCVRGRCVAVSCLPKERDQKCTRGKRCRRKK 45
Db 23 GIINTLQKYYCVRGRCVAVSCLPKERDQKCTRGKRCRRKK 67
RESULT 2
US-09-636-399A-2
Sequence 2, Application US/09636399A
Patent No. 6576755
GENERAL INFORMATION:
APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baintur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
```

```
FILE REFERENCE: 97-44C2
CURRENT APPLICATION NUMBER: US/09/636,399A
CURRENT FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 2
LENGTH: 65
TYPE: PRT
ORGANISM: Homo sapiens
US-09-636-399A-2
```

```
Query Match      96.0%; Score 240; DB 4; Length 65;
Best Local Similarity 100.0%; Pred. No. 4.7e-23;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 GIINTLQKYCRVGRCAVLSCLPKKEQIGKSTGRKCCRRK 43
DB 23 GIINTLQKYCRVGRCAVLSCLPKKEQIGKSTGRKCCRRK 65
```

```
RESULT 3
US-09-636-399A-43
Sequence 43, Application US/09636399A
Patent No. 6576755
GENERAL INFORMATION:
APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baidur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2
CURRENT APPLICATION NUMBER: US/09/636,399A
CURRENT FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 43
LENGTH: 45
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Defensin polypeptide
NAME/KEY: VARIANT
LOCATION: (41)...(41)
OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met
US-09-636-399A-43
```

```
Query Match      85.6%; Score 214; DB 4; Length 45;
Best Local Similarity 91.1%; Pred. No. 5.7e-20;
Matches 41; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
```

```
QY 1 GIINTLQKYCRVGRCAVLSCLPKKEQIGKSTGRKCCRRK 45
DB 1 GIINTLQKYCRVGRCAVLSCLPKKEQIGKSTGRKCCRRK 45
```

RESULT 4

```
US-09-636-399A-41
Sequence 41, Application US/09636399A
Patent No. 6576755
GENERAL INFORMATION:
APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baidur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2
CURRENT APPLICATION NUMBER: US/09/636,399A
CURRENT FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 41
LENGTH: 46
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Defensin polypeptide
NAME/KEY: VARIANT
LOCATION: (42)...(42)
OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met
US-09-636-399A-41
```

```
Query Match      85.6%; Score 214; DB 4; Length 46;
Best Local Similarity 91.1%; Pred. No. 5.8e-20;
Matches 41; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
```

```
QY 1 GIINTLQKYCRVGRCAVLSCLPKKEQIGKSTGRKCCRRK 45
DB 2 GIINTLQKYCRVGRCAVLSCLPKKEQIGKSTGRKCCRRK 46
```

```
RESULT 5
US-09-636-399A-39
Sequence 39, Application US/09636399A
Patent No. 6576755
GENERAL INFORMATION:
APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baidur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2
CURRENT APPLICATION NUMBER: US/09/636,399A
CURRENT FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 39
LENGTH: 47
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Defensin polypeptide
```

NAME/KEY: VARIANT
LOCATION: (43)...(43)
OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met
US-09-636-399A-39

Query Match 85.6%; Score 214; DB 4; Length 47;
Best Local Similarity 91.1%; Pred. No. 5.9e-20;
Matches 41; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GIINTLQKYCRVGRGCAVLSCLPKKEQIGKSTRGRKCCRRK 45
DB 3 GIINTLQKYCRVGRGCAVLSCLPKKECIGKSTRGRKCCRRK 47

RESULT 6

US-09-636-399A-37
Sequence 37, Application US/09636399A
Patent No. 6576755
GENERAL INFORMATION:
APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baidur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2
CURRENT APPLICATION NUMBER: US/09/636,399A
CURRENT FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 37
LENGTH: 48
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Defensin polypeptide
NAME/KEY: VARIANT
LOCATION: (44)...(44)
OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met
US-09-636-399A-37

Query Match 85.6%; Score 214; DB 4; Length 48;
Best Local Similarity 91.1%; Pred. No. 6.1e-20;
Matches 41; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GIINTLQKYCRVGRGCAVLSCLPKKEQIGKSTRGRKCCRRK 45
DB 4 GIINTLQKYCRVGRGCAVLSCLPKKECIGKSTRGRKCCRRK 48

RESULT 7

US-09-636-399A-35
Sequence 35, Application US/09636399A
Patent No. 6576755
GENERAL INFORMATION:
APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baidur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2
CURRENT APPLICATION NUMBER: US/09/636,399A
CURRENT FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/058,335

PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 35
LENGTH: 49
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Defensin polypeptide
NAME/KEY: VARIANT
LOCATION: (45)...(45)
OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met
US-09-636-399A-35

Query Match 85.6%; Score 214; DB 4; Length 49;
Best Local Similarity 91.1%; Pred. No. 6.2e-20;
Matches 41; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GIINTLQKYCRVGRGCAVLSCLPKKEQIGKSTRGRKCCRRK 45
DB 5 GIINTLQKYCRVGRGCAVLSCLPKKECIGKSTRGRKCCRRK 49

RESULT 8

US-09-636-399A-44
Sequence 44, Application US/09636399A
Patent No. 6576755
GENERAL INFORMATION:
APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baidur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2
CURRENT APPLICATION NUMBER: US/09/636,399A
CURRENT FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 44
LENGTH: 44
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Defensin polypeptide
NAME/KEY: VARIANT
LOCATION: (41)...(41)
OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met
US-09-636-399A-44

Query Match 83.6%; Score 209; DB 4; Length 44;
Best Local Similarity 90.9%; Pred. No. 2.3e-19;
Matches 40; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GIINTLQKYCRVGRGCAVLSCLPKKEQIGKSTRGRKCCRRK 44
DB 1 GIINTLQKYCRVGRGCAVLSCLPKKECIGKSTRGRKCCRRK 44

```
RESULT 9
US-09-636-399A-42
; Sequence 42, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baindur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 42
; LENGTH: 45
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (42)...(42)
; OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met
US-09-636-399A-42

Query Match      83.6%; Score 209; DB 4; Length 45;
Best Local Similarity 90.9%; Pred. No. 2,4e-19;
Matches 40; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GIINTLQRYCYRVGRGCAVLSCLPKKEQIGKSTGRKCCRRK 44
DB 2 GIINTLQRYCYRVGRGCAVLSCLPKKEQIGKSTGRKCCRRK 45

RESULT 10
US-09-636-399A-40
; Sequence 40, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baindur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 40
; LENGTH: 46
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
```

```
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (43)...(43)
; OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met
US-09-636-399A-40

Query Match      83.6%; Score 209; DB 4; Length 46;
Best Local Similarity 90.9%; Pred. No. 2,4e-19;
Matches 40; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GIINTLQRYCYRVGRGCAVLSCLPKKEQIGKSTGRKCCRRK 44
DB 3 GIINTLQRYCYRVGRGCAVLSCLPKKEQIGKSTGRKCCRRK 46

RESULT 11
US-09-636-399A-38
; Sequence 38, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baindur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 47
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (44)...(44)
; OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met.
US-09-636-399A-38

Query Match      83.6%; Score 209; DB 4; Length 47;
Best Local Similarity 90.9%; Pred. No. 2,5e-19;
Matches 40; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GIINTLQRYCYRVGRGCAVLSCLPKKEQIGKSTGRKCCRRK 44
DB 4 GIINTLQRYCYRVGRGCAVLSCLPKKEQIGKSTGRKCCRRK 47

RESULT 12
US-09-636-399A-36
; Sequence 36, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baindur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; PRIOR FILING DATE: 2000-08-10
```


PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 36
LENGTH: 48
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Defensin polypeptide
NAME/KEY: VARIANT
LOCATION: (45)...(45)
OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met
US-09-636-399A-36

Query Match 83.6%; Score 209; DB 4; Length 48;
Best Local Similarity 90.9%; Pred. No. 2,3e-19;
Matches 40; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 IINTLQKYYCRVGRCAVLSCLPKKEQIGKSTRGRKCRK 44
DB 5 IINTLQKYYCRVGRCAVLSCLPKKEQIGKSTRGRKCRK 48

RESULT 13
US-09-636-399A-20
Sequence 20, Application US/09636399A
Patent No. 6576755
GENERAL INFORMATION:
APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baidur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2
CURRENT APPLICATION NUMBER: US/09/636,399A
PRIOR FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 20
LENGTH: 44
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Defensin Polypeptide
US-09-636-399A-20

Query Match 83.2%; Score 208; DB 4; Length 44;
Best Local Similarity 90.9%; Pred. No. 3,1e-19;
Matches 40; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 IINTLQKYYCRVGRCAVLSCLPKKEQIGKSTRGRKCRK 45
DB 1 IINTLQKYYCRVGRCAVLSCLPKKEQIGKSTRGRKCRK 44

RESULT 14
US-09-636-399A-45

Sequence 45, Application US/09636399A
Patent No. 6576755
GENERAL INFORMATION:
APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baidur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2
CURRENT APPLICATION NUMBER: US/09/636,399A
PRIOR FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 45
LENGTH: 44
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Defensin polypeptide
NAME/KEY: VARIANT
LOCATION: (40)...(40)
OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, Met.
US-09-636-399A-45

Query Match 83.2%; Score 208; DB 4; Length 44;
Best Local Similarity 90.9%; Pred. No. 3,1e-19;
Matches 40; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 IINTLQKYYCRVGRCAVLSCLPKKEQIGKSTRGRKCRK 45
DB 1 IINTLQKYYCRVGRCAVLSCLPKKEQIGKSTRGRKCRK 44

RESULT 15
US-09-636-399A-23
Sequence 23, Application US/09636399A
Patent No. 6576755
GENERAL INFORMATION:
APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baidur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2
CURRENT APPLICATION NUMBER: US/09/636,399A
PRIOR FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 23
LENGTH: 43
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Defensin polypeptide
US-09-636-399A-23

Query Match 81.6%; Score 204; DB 4; Length 43;
Best Local Similarity 90.7%; Pred. No. 9.6e-19;
Matches 39; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
QY 3 INTLQKYYCRRVGGRCVLSCLPKKEQIGKCGSTRGRKCCRKK 45
Db 1 INTLQKYYCRRVRYRCVLSCLPKKEQIKCGSTRYRKCCRKK 43

Search completed: May 17, 2004, 18:00:27
Job time : 12.3529 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: May 17, 2004, 17:58:35 ; Search time 31.7647 Seconds
(without alignments)
394.204 Million cell updates/sec

Title: US-09-872-852-4

Sequence: 1 GIINTLQKYYCVRGRCVAV.....KEPDIGKSTGRKCRKX 45

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1145568 seqs, 278261457 residues

Total number of hits satisfying chosen parameters: 1145568

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-Processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Match	Query length	DB ID	Description
1	250	100.0	45	9	US-09-872-852-4
2	250	100.0	67	9	US-09-917-340-52
3	250	100.0	67	9	US-09-917-340-72
4	250	100.0	67	9	US-09-872-852-2
5	250	100.0	67	14	US-10-091-166B-10
6	250	100.0	67	14	US-10-272-121-10
7	250	100.0	67	14	US-10-409-366-10
8	250	100.0	67	14	US-10-091-166B-2
9	240	96.0	65	14	US-10-272-121-2
10	240	96.0	65	14	US-10-409-366-2
11	240	96.0	65	14	US-10-409-532-2
12	230	92.0	41	9	US-09-872-852-3
13	214	85.6	45	14	US-10-091-166B-43
15	214	85.6	45	14	US-10-272-121-43

16	214	85.6	45	14	US-10-409-366-43	Sequence 43, Appl
17	214	85.6	45	14	US-10-409-532-43	Sequence 43, Appl
18	214	85.6	46	14	US-10-091-166B-41	Sequence 41, Appl
19	214	85.6	46	14	US-10-272-121-41	Sequence 41, Appl
20	214	85.6	46	14	US-10-409-366-41	Sequence 41, Appl
21	214	85.6	46	14	US-10-409-532-41	Sequence 41, Appl
22	214	85.6	47	14	US-10-091-166B-39	Sequence 39, Appl
23	214	85.6	47	14	US-10-272-121-39	Sequence 39, Appl
24	214	85.6	47	14	US-10-409-366-39	Sequence 39, Appl
25	214	85.6	48	14	US-10-409-532-39	Sequence 39, Appl
26	214	85.6	48	14	US-10-091-166B-37	Sequence 37, Appl
27	214	85.6	48	14	US-10-272-121-37	Sequence 37, Appl
28	214	85.6	48	14	US-10-409-366-37	Sequence 37, Appl
29	214	85.6	48	14	US-10-409-532-37	Sequence 37, Appl
30	214	85.6	49	14	US-10-091-166B-35	Sequence 35, Appl
31	214	85.6	49	14	US-10-272-121-35	Sequence 35, Appl
32	214	85.6	49	14	US-10-409-366-35	Sequence 35, Appl
33	214	85.6	49	14	US-10-409-532-35	Sequence 35, Appl
34	209	83.6	44	14	US-10-091-166B-44	Sequence 44, Appl
35	209	83.6	44	14	US-10-272-121-44	Sequence 44, Appl
36	209	83.6	44	14	US-10-409-366-44	Sequence 44, Appl
37	209	83.6	44	14	US-10-409-532-44	Sequence 44, Appl
38	209	83.6	45	14	US-10-091-166B-42	Sequence 42, Appl
39	209	83.6	45	14	US-10-272-121-42	Sequence 42, Appl
40	209	83.6	45	14	US-10-409-366-42	Sequence 42, Appl
41	209	83.6	45	14	US-10-409-532-42	Sequence 42, Appl
42	209	83.6	46	14	US-10-091-166B-40	Sequence 40, Appl
43	209	83.6	46	14	US-10-272-121-40	Sequence 40, Appl
44	209	83.6	46	14	US-10-409-366-40	Sequence 40, Appl
45	209	83.6	46	14	US-10-409-532-40	Sequence 40, Appl

ALIGNMENTS

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RESULT 1
US-09-872-852-4
Sequence 4, Application US/09872852
Patent No. US20020115602A1
GENERAL INFORMATION:
APPLICANT: MCCRAY JR, PAUL B.
APPLICANT: TRICK, BRIAN
APPLICANT: UTA, HONG PENG
APPLICANT: SCHUTTE, BRIAN C.
TITLE OF INVENTION: HUMAN BETA-DEFENSIN-3 (HBD-3), A HIGHLY CATIONIC
FILE REFERENCE: IOWA:031US
CURRENT APPLICATION NUMBER: US/09/872, 852
CURRENT FILING DATE: 2001-06-01
PRIOR APPLICATION NUMBER: 60/208,792
PRIOR FILING DATE: 2000-06-01
NUMBER OF SEQ ID NOS: 24
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 4
LENGTH: 45
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-872-852-4
Query Match 100.0%; Score 250; DB 9; Length 45;
Best Local Similarity 100.0%; Pred. No. 1.2e-23;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 GIINTLQKYYCVRGRCVAVSLPKEPDIGKSTGRKCRKX 45
DB 1 GIINTLQKYYCVRGRCVAVSLPKEPDIGKSTGRKCRKX 45

RESULT 2
US-09-917-340-52

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/ Sequence 52, Application US/09917340
/ Patent No. US20020090369A1
/ GENERAL INFORMATION:
/ APPLICANT: Murphy, Christopher J.
/ APPLICANT: McNulty, Jonathan F.
/ APPLICANT: Reid, Ted W.
/ TITLE OF INVENTION: Transplant Media
/ FILE REFERENCE: TPLANT-06468
/ CURRENT APPLICATION NUMBER: US/09/917,340
/ PRIOR FILING DATE: 2001-07-29
/ PRIOR APPLICATION NUMBER: 60/221,632
/ PRIOR FILING DATE: 2000-07-28
/ PRIOR APPLICATION NUMBER: 60/249,602
/ PRIOR FILING DATE: 2000-11-17
/ PRIOR APPLICATION NUMBER: 60/290,932
/ PRIOR FILING DATE: 2001-05-15
/ NUMBER OF SEQ ID NOS: 96
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 52
/ LENGTH: 67
/ TYPE: PR1
/ ORGANISM: Homo sapiens
US-09-917-340-52
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Query Match          100.0%; Score 250; DB 9; Length 67;
Best Local Similarity 100.0%; Pred. No. 1.8e-23;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 GIINTLQKYYCRVGRGCAVLSCLPKKEQIGKSTRGKCCRRKK 45
DB 23 GIINTLQKYYCRVGRGCAVLSCLPKKEQIGKSTRGKCCRRKK 67
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RESULT 3
US-09-917-340-72
/ Sequence 72, Application US/09917340
/ Patent No. US20020090369A1
/ GENERAL INFORMATION:
/ APPLICANT: Murphy, Christopher J.
/ APPLICANT: McNulty, Jonathan F.
/ APPLICANT: Reid, Ted W.
/ TITLE OF INVENTION: Transplant Media
/ FILE REFERENCE: TPLANT-06468
/ CURRENT APPLICATION NUMBER: US/09/917,340
/ PRIOR FILING DATE: 2001-07-29
/ PRIOR APPLICATION NUMBER: 60/221,632
/ PRIOR FILING DATE: 2000-07-28
/ PRIOR APPLICATION NUMBER: 60/249,602
/ PRIOR FILING DATE: 2000-11-17
/ PRIOR APPLICATION NUMBER: 60/290,932
/ PRIOR FILING DATE: 2001-05-15
/ NUMBER OF SEQ ID NOS: 96
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 72
/ LENGTH: 67
/ TYPE: PR1
/ ORGANISM: Homo sapiens
US-09-917-340-72
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Query Match          100.0%; Score 250; DB 9; Length 67;
Best Local Similarity 100.0%; Pred. No. 1.8e-23;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY 1 GIINTLQKYYCRVGRGCAVLSCLPKKEQIGKSTRGKCCRRKK 45
DB 23 GIINTLQKYYCRVGRGCAVLSCLPKKEQIGKSTRGKCCRRKK 67
```

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RESULT 4
US-09-872-852-2
/ Sequence 2, Application US/09872852
/ Patent No. US20020115602A1
/ GENERAL INFORMATION:
```

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/ APPLICANT: MCCRAY JR, PAUL B.
/ APPLICANT: TACK, BRIAN
/ APPLICANT: JIA, HONG PENG
/ APPLICANT: SCHUTTE, BRIAN C.
/ TITLE OF INVENTION: HUMAN BETA-DEFENSIN-3 (HBD-3), A HIGHLY CATIONIC
/ FILE REFERENCE: ICWA:031US
/ CURRENT APPLICATION NUMBER: US/09/872,852
/ PRIOR FILING DATE: 2001-06-01
/ PRIOR APPLICATION NUMBER: 60/208,792
/ PRIOR FILING DATE: 2000-06-01
/ NUMBER OF SEQ ID NOS: 24
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 2
/ LENGTH: 67
/ TYPE: PR1
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-872-852-2
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Query Match          100.0%; Score 250; DB 9; Length 67;
Best Local Similarity 100.0%; Pred. No. 1.8e-23;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 GIINTLQKYYCRVGRGCAVLSCLPKKEQIGKSTRGKCCRRKK 45
DB 23 GIINTLQKYYCRVGRGCAVLSCLPKKEQIGKSTRGKCCRRKK 67
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RESULT 5
US-10-091-166B-10
/ Sequence 10, Application US/10091166B
/ Publication No. US20030143671A1
/ GENERAL INFORMATION:
/ APPLICANT: Adler, David A.
/ APPLICANT: Holloway, James L.
/ APPLICANT: Baidur, Nand
/ APPLICANT: Beigel-Ome, Stephanie
/ APPLICANT: Sheppard, Paul O.
/ TITLE OF INVENTION: NOVEL BETA-DEFENSINS
/ FILE REFERENCE: 97-44D1
/ CURRENT APPLICATION NUMBER: US/10/091,166B
/ PRIOR FILING DATE: 2002-03-05
/ PRIOR APPLICATION NUMBER: US 09/636,399
/ PRIOR FILING DATE: 2000-08-10
/ PRIOR APPLICATION NUMBER: US 09/344,097
/ PRIOR FILING DATE: 1999-06-25
/ PRIOR APPLICATION NUMBER: US 09/150,786
/ PRIOR FILING DATE: 1998-09-10
/ PRIOR APPLICATION NUMBER: US 60/064,294
/ PRIOR FILING DATE: 1997-11-05
/ PRIOR APPLICATION NUMBER: US 60/058,335
/ PRIOR FILING DATE: 1997-09-10
/ NUMBER OF SEQ ID NOS: 72
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 10
/ LENGTH: 67
/ TYPE: PR1
/ ORGANISM: Homo sapiens
US-10-091-166B-10
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Query Match          100.0%; Score 250; DB 14; Length 67;
Best Local Similarity 100.0%; Pred. No. 1.8e-23;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY 1 GIINTLQKYYCRVGRGCAVLSCLPKKEQIGKSTRGKCCRRKK 45
DB 23 GIINTLQKYYCRVGRGCAVLSCLPKKEQIGKSTRGKCCRRKK 67
```

```
RESULT 6
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```
Query Match      100.0%;  Score 250;  DB 14;  Length 67;
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; PRIOR APPLICATION NUMBER: US 60/058,335
 ; PRIOR FILING DATE: 1997-09-10

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; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 65
; TYPE: PRF
; ORGANISM: Homo sapiens
US-10-091-166B-2

Query Match
Best Local Similarity 100.0%; Score 240; DB 14; Length 65;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY
1 GIINTLQKYYCVRVGRCAVLSCLPKKEQIGKSTGRKCCRR 43
23 GIINTLQKYYCVRVGRCAVLSCLPKKEQIGKSTGRKCCRR 65

RESULT 10
US-10-272-121-2
; Sequence 2, Application US/10272121
; Publication No. US20030157638A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holliday, James L.
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-4442
; CURRENT APPLICATION NUMBER: US/10/272,121
; PRIOR FILING DATE: 2002-10-15/636,399
; PRIOR APPLICATION NUMBER: US 09/636,399
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: US 09/344,097
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: US 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: US 60/064,294
; PRIOR FILING DATE: 1997-11-05/60,058,335
; PRIOR APPLICATION NUMBER: US 60/058,335
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 65
; TYPE: PRF
; ORGANISM: Homo sapiens
US-10-272-121-2

Query Match
Best Local Similarity 100.0%; Score 240; DB 14; Length 65;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY
1 GIINTLQKYYCVRVGRCAVLSCLPKKEQIGKSTGRKCCRR 43
23 GIINTLQKYYCVRVGRCAVLSCLPKKEQIGKSTGRKCCRR 65

RESULT 11
US-10-409-366-2
; Sequence 2, Application US/10409366
; Publication No. US20030166912A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holliday, James L.
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-4442
; CURRENT APPLICATION NUMBER: US/10/409,366
; CURRENT FILING DATE: 2003-04-07
; PRIOR APPLICATION NUMBER: US/09/636,399A
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; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 65
; TYPE: PRF
; ORGANISM: Homo sapiens
US-10-409-366-2

Query Match
Best Local Similarity 100.0%; Score 240; DB 14; Length 65;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY
1 GIINTLQKYYCVRVGRCAVLSCLPKKEQIGKSTGRKCCRR 43
23 GIINTLQKYYCVRVGRCAVLSCLPKKEQIGKSTGRKCCRR 65

RESULT 12
US-10-409-532-2
; Sequence 2, Application US/10409532
; Publication No. US20030166913A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holliday, James L.
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-4442
; CURRENT APPLICATION NUMBER: US/10/409,532
; PRIOR FILING DATE: 2003-04-07
; PRIOR APPLICATION NUMBER: US/09/636,399A
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 65
; TYPE: PRF
; ORGANISM: Homo sapiens
US-10-409-532-2

Query Match
Best Local Similarity 100.0%; Score 240; DB 14; Length 65;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY
1 GIINTLQKYYCVRVGRCAVLSCLPKKEQIGKSTGRKCCRR 43
23 GIINTLQKYYCVRVGRCAVLSCLPKKEQIGKSTGRKCCRR 65

RESULT 13
US-09-872-852-3
; Sequence 3, Application US/09872852
; Patent No. US20020115602A1
; GENERAL INFORMATION:
; APPLICANT: MCCRAY JR, PAUL B.
```

```

; APPLICANT: TACK, BRIAN
; APPLICANT: JIA, HONG PENG
; APPLICANT: SCHUTTE, BRIAN C.
; TITLE OF INVENTION: HUMAN BETA-DEFENSIN-3 (HBD-3), A HIGHLY CATIONIC
; TITLE OF INVENTION: BETA-DEFENSIN ANTIMICROBIAL PEPTIDE
; FILE REFERENCE: IOWA.0311US
; CURRENT APPLICATION NUMBER: US/09/872,852
; CURRENT FILING DATE: 2001-06-01
; PRIOR APPLICATION NUMBER: 60/208,792
; PRIOR FILING DATE: 2000-06-01
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patent Ver. 2.1
; SEQ ID NO: 3
; LENGTH: 41
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Peptide
US-09-872-852-3

Query Match          92.0%; Score 230; DB 9; Length 41;
Best Local Similarity 100.0%; Pred. No. 3,2e-21;
Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 TLQKYYCRVGGRCVAVLSCLPKPEQIGKCTGRGKCRKK 45
DB 1 TLQKYYCRVGGRCVAVLSCLPKPEQIGKCTGRGKCRKK 41

RESULT 14
; US-10-091-166B-43
; Sequence 43, Application US/10091166B
; Publication No. US20030143671A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44D1
; CURRENT APPLICATION NUMBER: US/10/091,166B
; CURRENT FILING DATE: 2002-03-05
; PRIOR APPLICATION NUMBER: US 09/636,399
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: US 09/344,097
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: US 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: US 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: US 60/058,335
; PRIOR FILING DATE: 1997-09-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 43
; LENGTH: 45
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (41)...(41)
; OTHER INFORMATION: leucine, isoleucine, valine, phenylalanine, or
; OTHER INFORMATION: methionine
US-10-091-166B-43

Query Match          85.6%; Score 214; DB 14; Length 45;
Best Local Similarity 91.1%; Pred. No. 3,3e-19;
Matches 41; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
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QY 1 GIINTLQKYYCRVGGRCVAVLSCLPKPEQIGKCTGRGKCRKK 45
DB 1 GIINTLQKYYCRVGGRCVAVLSCLPKPEQIGKCTGRGKCRKK 45

RESULT 15
; US-10-272-121-43
; Sequence 43, Application US/10272121
; Publication No. US20030157638A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44D2
; CURRENT APPLICATION NUMBER: US/10/272,121
; CURRENT FILING DATE: 2002-10-15
; PRIOR APPLICATION NUMBER: US 09/636,399
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: US 09/344,097
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: US 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: US 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: US 60/058,335
; PRIOR FILING DATE: 1997-09-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 43
; LENGTH: 45
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (41)...(41)
; OTHER INFORMATION: leucine, isoleucine, valine, phenylalanine, or
; OTHER INFORMATION: methionine
US-10-272-121-43

Query Match          85.6%; Score 214; DB 14; Length 45;
Best Local Similarity 91.1%; Pred. No. 3,3e-19;
Matches 41; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GIINTLQKYYCRVGGRCVAVLSCLPKPEQIGKCTGRGKCRKK 45
DB 1 GIINTLQKYYCRVGGRCVAVLSCLPKPEQIGKCTGRGKCRKK 45

Search completed: May 17, 2004, 18:11:58
Job time : 31.7647 secs
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Tue May 18 12:11:22 2004

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Page 1

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: May 17, 2004, 17:58:35 ; Search time 28.9412 Seconds
(without alignments)
394.204 Million cell updates/sec

Title: US-09-872-852-3

Perfect score: 230
Sequence: 1 TLQKYYCRVGRGCAVLSCLPKEBOIGKSTGRKCRK 41

Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1145568 seqs, 278261457 residues

Total number of hits satisfying chosen parameters: 1145568

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Published Applications AA:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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2	230	100.0	45	9	US-09-872-852-4
3	230	100.0	67	9	US-09-917-340-52
4	230	100.0	67	9	US-09-917-340-72
5	230	100.0	67	9	US-09-872-852-2
6	230	100.0	67	14	US-10-091-166B-10
7	230	100.0	67	14	US-10-272-121-10
8	230	100.0	67	14	US-10-409-366-10
9	230	100.0	67	14	US-10-409-532-10
10	220	95.7	65	14	US-10-091-166B-2
11	220	95.7	65	14	US-10-272-121-2
12	220	95.7	65	14	US-10-409-366-2
13	220	95.7	65	14	US-10-409-532-2
14	201	87.4	35	14	US-10-252-734-7
15	194	84.3	41	14	US-10-091-166B-29

16	194	84.3	41	14	US-10-091-166B-51	Sequence 51, Appl
17	194	84.3	41	14	US-10-272-121-29	Sequence 29, Appl
18	194	84.3	41	14	US-10-272-121-51	Sequence 51, Appl
19	194	84.3	41	14	US-10-409-366-29	Sequence 29, Appl
20	194	84.3	41	14	US-10-409-366-51	Sequence 51, Appl
21	194	84.3	41	14	US-10-409-532-29	Sequence 29, Appl
22	194	84.3	41	14	US-10-409-532-51	Sequence 51, Appl
23	194	84.3	42	14	US-10-091-166B-26	Sequence 26, Appl
24	194	84.3	42	14	US-10-091-166B-49	Sequence 49, Appl
25	194	84.3	42	14	US-10-272-121-26	Sequence 26, Appl
26	194	84.3	42	14	US-10-272-121-49	Sequence 49, Appl
27	194	84.3	42	14	US-10-409-366-26	Sequence 26, Appl
28	194	84.3	42	14	US-10-409-366-49	Sequence 49, Appl
29	194	84.3	42	14	US-10-409-532-26	Sequence 26, Appl
30	194	84.3	42	14	US-10-409-532-49	Sequence 49, Appl
31	194	84.3	43	14	US-10-091-166B-23	Sequence 23, Appl
32	194	84.3	43	14	US-10-091-166B-47	Sequence 47, Appl
33	194	84.3	43	14	US-10-272-121-23	Sequence 23, Appl
34	194	84.3	43	14	US-10-272-121-47	Sequence 47, Appl
35	194	84.3	43	14	US-10-409-366-23	Sequence 23, Appl
36	194	84.3	43	14	US-10-409-366-47	Sequence 47, Appl
37	194	84.3	43	14	US-10-409-532-23	Sequence 23, Appl
38	194	84.3	43	14	US-10-409-532-47	Sequence 47, Appl
39	194	84.3	44	14	US-10-091-166B-20	Sequence 20, Appl
40	194	84.3	44	14	US-10-091-166B-45	Sequence 45, Appl
41	194	84.3	44	14	US-10-272-121-20	Sequence 20, Appl
42	194	84.3	44	14	US-10-272-121-45	Sequence 45, Appl
43	194	84.3	44	14	US-10-409-366-20	Sequence 20, Appl
44	194	84.3	44	14	US-10-409-366-45	Sequence 45, Appl
45	194	84.3	44	14	US-10-409-532-20	Sequence 20, Appl

ALIGNMENTS

RESULT 1
US-09-872-852-3
Sequence 3, Application US/09872852
Patent No. US20020115602A1
GENERAL INFORMATION:
APPLICANT: MCCRAY JR, PAUL B.
APPLICANT: TRACK, BRIAN
APPLICANT: JIA, HONG PENG
APPLICANT: SCHOTTE, BRIAN C.
TITLE OF INVENTION: HUMAN BETA-DEFENSIN-3 (HBD-3), A HIGHLY CATIONIC
FILE REFERENCE: IOWA:031US
CURRENT APPLICATION NUMBER: US/09/872,852
CURRENT FILING DATE: 2001-06-01
PRIOR APPLICATION NUMBER: 60/208,792
PRIOR FILING DATE: 2000-06-01
NUMBER OF SEQ ID NOS: 24
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 3
LENGTH: 41
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-872-852-3
Query Match 100.0% Score 230; DB 9; Length 41;
Best Local Similarity 100.0%; Pred. No. 4.4e-21;
Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TLQKYYCRVGRGCAVLSCLPKEBOIGKSTGRKCRK 41
Db 1 TLQKYYCRVGRGCAVLSCLPKEBOIGKSTGRKCRK 41
RESULT 2
US-09-872-852-4


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/ Sequence 4, Application US/09872852
/ Patent No. US20020115602A1
/ GENERAL INFORMATION:
/ APPLICANT: MCCRAY JR, PAUL B.
/ APPLICANT: TACK, BRIAN
/ APPLICANT: JIA, HONG PENG
/ APPLICANT: SCHUTTE, BRIAN C.
/ TITLE OF INVENTION: HUMAN BETA-DEFENSIN-3 (HBD-3), A HIGHLY CATIONIC
/ FILE REFERENCE: IOWA:031US
/ CURRENT APPLICATION NUMBER: US/09/872,852
/ PRIOR FILING DATE: 2001-06-01
/ PRIOR APPLICATION NUMBER: 60/249,602
/ PRIOR FILING DATE: 2000-06-01
/ NUMBER OF SEQ ID NOS: 24
/ SOFTWARE: Patentin Ver. 2.1
/ SEQ ID NO 4
/ LENGTH: 45
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: Synthetic
/ US-09-872-852-4
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Query Match      100.0%; Score 230; DB 9; Length 45;
Best Local Similarity 100.0%; Pred. No. 4.8e-21;
Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 3
US-09-917-340-52
/ Sequence 52, Application US/09917340
/ Patent No. US20020090369A1
/ GENERAL INFORMATION:
/ APPLICANT: Murphy, Christopher J.
/ APPLICANT: McNulty, Jonathan F.
/ APPLICANT: Reid, Ted W.
/ TITLE OF INVENTION: Transplant Media
/ FILE REFERENCE: TPLANT-06468
/ CURRENT APPLICATION NUMBER: US/09/917,340
/ PRIOR FILING DATE: 2001-07-29
/ PRIOR APPLICATION NUMBER: 60/221,632
/ PRIOR FILING DATE: 2000-07-28
/ PRIOR APPLICATION NUMBER: 60/249,602
/ PRIOR FILING DATE: 2000-11-17
/ PRIOR APPLICATION NUMBER: 60/290,932
/ PRIOR FILING DATE: 2001-05-15
/ NUMBER OF SEQ ID NOS: 96
/ SOFTWARE: Patentin Ver. 2.0
/ SEQ ID NO 52
/ LENGTH: 67
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ US-09-917-340-52
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Best Local Similarity 100.0%; Pred. No. 7.1e-21;
Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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DB      27 TLQKYYCRVGRGCAVLSCLPKKEQIGKSTRGRKCCRRKK 67
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RESULT 4
US-09-917-340-72
/ Sequence 72, Application US/09917340
/ Patent No. US20020090369A1
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/ GENERAL INFORMATION:
/ APPLICANT: Murphy, Christopher J.
/ APPLICANT: McNulty, Jonathan F.
/ APPLICANT: Reid, Ted W.
/ TITLE OF INVENTION: Transplant Media
/ FILE REFERENCE: TPLANT-06468
/ CURRENT APPLICATION NUMBER: US/09/917,340
/ PRIOR FILING DATE: 2001-07-29
/ PRIOR APPLICATION NUMBER: 60/221,632
/ PRIOR FILING DATE: 2000-07-28
/ PRIOR APPLICATION NUMBER: 60/249,602
/ PRIOR FILING DATE: 2000-11-17
/ PRIOR APPLICATION NUMBER: 60/290,932
/ PRIOR FILING DATE: 2001-05-15
/ NUMBER OF SEQ ID NOS: 96
/ SOFTWARE: Patentin Ver. 2.0
/ SEQ ID NO 72
/ LENGTH: 67
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ US-09-917-340-72
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Best Local Similarity 100.0%; Pred. No. 7.1e-21;
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DB      27 TLQKYYCRVGRGCAVLSCLPKKEQIGKSTRGRKCCRRKK 67
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RESULT 5
US-09-872-852-2
/ Sequence 2, Application US/09872852
/ Patent No. US20020115602A1
/ GENERAL INFORMATION:
/ APPLICANT: MCCRAY JR, PAUL B.
/ APPLICANT: TACK, BRIAN
/ APPLICANT: JIA, HONG PENG
/ APPLICANT: SCHUTTE, BRIAN C.
/ TITLE OF INVENTION: HUMAN BETA-DEFENSIN-3 (HBD-3), A HIGHLY CATIONIC
/ FILE REFERENCE: IOWA:031US
/ CURRENT APPLICATION NUMBER: US/09/872,852
/ PRIOR FILING DATE: 2001-06-01
/ PRIOR APPLICATION NUMBER: 60/208,792
/ PRIOR FILING DATE: 2000-06-01
/ NUMBER OF SEQ ID NOS: 24
/ SOFTWARE: Patentin Ver. 2.1
/ SEQ ID NO 2
/ LENGTH: 67
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: Synthetic
/ OTHER INFORMATION: Peptide
/ US-09-872-852-2
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Best Local Similarity 100.0%; Pred. No. 7.1e-21;
Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
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DB      27 TLQKYYCRVGRGCAVLSCLPKKEQIGKSTRGRKCCRRKK 67
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RESULT 6
US-10-091-166B-10
/ Sequence 10, Application US/10091166B
/ Publication No. US20030143671A1
/ GENERAL INFORMATION:
/ APPLICANT: Adler, David A.
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APPLICANT: Holloway, James L.
APPLICANT: Baidur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44D1
CURRENT APPLICATION NUMBER: US/10/091,166B
CURRENT FILING DATE: 2002-03-05
PRIOR APPLICATION NUMBER: US 09/636,399
PRIOR FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: US 09/344,097
PRIOR FILING DATE: 1999-06-25
PRIOR APPLICATION NUMBER: US 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: US 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: US 60/058,335
PRIOR FILING DATE: 1997-09-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 10
LENGTH: 67
TYPE: PRT
ORGANISM: Homo sapiens
US-10-091-166B-10

Query Match 100.0%; Score 230; DB 14; Length 67;
Best Local Similarity 100.0%; Pred. No. 7.1e-21;
Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLQKYCRVGRGCAVLSCLPKKEQIGKSTRGRKCCRRKX 41
Db 27 TLQKYCRVGRGCAVLSCLPKKEQIGKSTRGRKCCRRKX 67

RESULT 7
US-10-272-121-10
Sequence 10, Application US/10272121
Publication No. US20030157638A1
GENERAL INFORMATION:
APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baidur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44D2
CURRENT APPLICATION NUMBER: US/10/272,121
CURRENT FILING DATE: 2002-10-15
PRIOR APPLICATION NUMBER: US 09/636,399
PRIOR FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: US 09/344,097
PRIOR FILING DATE: 1999-06-25
PRIOR APPLICATION NUMBER: US 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: US 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: US 60/058,335
PRIOR FILING DATE: 1997-09-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 10
LENGTH: 67
TYPE: PRT
ORGANISM: Homo sapiens
US-10-272-121-10

Query Match 100.0%; Score 230; DB 14; Length 67;
Best Local Similarity 100.0%; Pred. No. 7.1e-21;
Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLQKYCRVGRGCAVLSCLPKKEQIGKSTRGRKCCRRKX 41

Db 27 TLQKYCRVGRGCAVLSCLPKKEQIGKSTRGRKCCRRKX 67

RESULT 8
US-10-409-366-10
Sequence 10, Application US/10409366
Publication No. US20030166912A1
GENERAL INFORMATION:
APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baidur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2
CURRENT APPLICATION NUMBER: US/10/409,366
CURRENT FILING DATE: 2003-04-07
PRIOR APPLICATION NUMBER: US/09/636,399A
PRIOR FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 10
LENGTH: 67
TYPE: PRT
ORGANISM: Homo sapiens
US-10-409-366-10

Query Match 100.0%; Score 230; DB 14; Length 67;
Best Local Similarity 100.0%; Pred. No. 7.1e-21;
Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLQKYCRVGRGCAVLSCLPKKEQIGKSTRGRKCCRRKX 41
Db 27 TLQKYCRVGRGCAVLSCLPKKEQIGKSTRGRKCCRRKX 67

RESULT 9
US-10-409-532-10
Sequence 10, Application US/10409532
Publication No. US20030166913A1
GENERAL INFORMATION:
APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baidur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2
CURRENT APPLICATION NUMBER: US/10/409,532
CURRENT FILING DATE: 2003-04-07
PRIOR APPLICATION NUMBER: US/09/636,399A
PRIOR FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 10
LENGTH: 67
TYPE: PRT

Tue May 18 12:11:22 2004

us-09-872-852-3.rapb

Page 4

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; ORGANISM: Homo sapiens
US-10-409-532-10

Query Match      100.0%; Score 230; DB 14; Length 67;
Best Local Similarity 100.0%; Pred. No. 7.1e-21;
Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TLQKYCRVGRGCAVLSCLPKKEQIGKSTRGKCCRR 41
Db      27 TLQKYCRVGRGCAVLSCLPKKEQIGKSTRGKCCRR 67

RESULT 10
US-10-091-166B-2
; Sequence 2, Application US/10091166B
; Publication No. US20030143671A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44D1
; CURRENT APPLICATION NUMBER: US/10/091,166B
; PRIOR FILING DATE: 2002-03-05
; PRIOR APPLICATION NUMBER: US 09/636,399
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: US 09/344,097
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: US 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: US 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: US 60/058,335
; PRIOR FILING DATE: 1997-09-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 65
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-091-166B-2

Query Match      95.7%; Score 220; DB 14; Length 65;
Best Local Similarity 100.0%; Pred. No. 1.2e-19;
Matches 39; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TLQKYCRVGRGCAVLSCLPKKEQIGKSTRGKCCRR 39
Db      27 TLQKYCRVGRGCAVLSCLPKKEQIGKSTRGKCCRR 65

RESULT 11
US-10-272-121-2
; Sequence 2, Application US/10272121
; Publication No. US20030157638A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44D2
; CURRENT APPLICATION NUMBER: US/10/272,121
; PRIOR FILING DATE: 2002-10-15
; PRIOR APPLICATION NUMBER: US 09/636,399
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: US 09/344,097
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: US 09/150,786
; PRIOR FILING DATE: 1998-09-10
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; PRIOR APPLICATION NUMBER: US 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: US 60/058,335
; PRIOR FILING DATE: 1997-09-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 65
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-272-121-2

Query Match      95.7%; Score 220; DB 14; Length 65;
Best Local Similarity 100.0%; Pred. No. 1.2e-19;
Matches 39; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TLQKYCRVGRGCAVLSCLPKKEQIGKSTRGKCCRR 39
Db      27 TLQKYCRVGRGCAVLSCLPKKEQIGKSTRGKCCRR 65

RESULT 12
US-10-409-366-2
; Sequence 2, Application US/10409366
; Publication No. US20030166912A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/10/409,366
; PRIOR FILING DATE: 2003-04-07
; PRIOR APPLICATION NUMBER: US/09/636,399A
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 65
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-409-366-2

Query Match      95.7%; Score 220; DB 14; Length 65;
Best Local Similarity 100.0%; Pred. No. 1.2e-19;
Matches 39; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TLQKYCRVGRGCAVLSCLPKKEQIGKSTRGKCCRR 39
Db      27 TLQKYCRVGRGCAVLSCLPKKEQIGKSTRGKCCRR 65

RESULT 13
US-10-409-532-2
; Sequence 2, Application US/10409532
; Publication No. US20030166913A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
```

FILE REFERENCE: 97-44C2
CURRENT APPLICATION NUMBER: US/10/409,532
CURRENT FILING DATE: 2003-04-07
PRIOR APPLICATION NUMBER: US/09/636,399A
PRIOR FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 2
LENGTH: 65
TYPE: PRT
ORGANISM: Homo sapiens
US-10-409-532-2

Query Match 95.7%; Score 220; DB 14; Length 65;
Best Local Similarity 100.0%; Pred. No. 1.2e-19;
Matches 39; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLQKYYCRVGRCAVLSCLPKKEQIGKSTGRKCCR 39
Db 27 TLQKYYCRVGRCAVLSCLPKKEQIGKSTGRKCCR 65

RESULT 14
US-10-252-734-7
Sequence 7, Application US/10252734
Publication No. US20030176652A1
GENERAL INFORMATION:
APPLICANT: MCCRAY, JR., PAUL B.
APPLICANT: SCHUTTE, BRIAN C.
APPLICANT: JIA, HONG PENG
APPLICANT: CASAVANT, THOMAS L.
TITLE OF INVENTION: HUMAN AND MOUSE b-DEFENSINS, ANTIMICROBIAL PEPTIDES
FILE REFERENCE: IOWA:041US
CURRENT APPLICATION NUMBER: US/10/252,734
CURRENT FILING DATE: 2002-09-23
PRIOR APPLICATION NUMBER: 60/323,991
PRIOR FILING DATE: 2001-09-21
NUMBER OF SEQ ID NOS: 82
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 7
LENGTH: 35
TYPE: PRT
ORGANISM: Homo sapiens
US-10-252-734-7

Query Match 87.4%; Score 201; DB 14; Length 35;
Best Local Similarity 100.0%; Pred. No. 1.4e-17;
Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 YYCRVGRCAVLSCLPKKEQIGKSTGRKCCR 39
Db 1 YYCRVGRCAVLSCLPKKEQIGKSTGRKCCR 35

RESULT 15
US-10-091-166B-29
Sequence 29, Application US/10091166B
Publication No. US20030143671A1
GENERAL INFORMATION:
APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baindur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS

FILE REFERENCE: 97-44D1
CURRENT APPLICATION NUMBER: US/10/091,166B
CURRENT FILING DATE: 2002-03-05
PRIOR APPLICATION NUMBER: US 09/636,399
PRIOR FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: US 09/344,097
PRIOR FILING DATE: 1999-06-25
PRIOR APPLICATION NUMBER: US 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: US 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: US 60/058,335
PRIOR FILING DATE: 1997-09-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 29
LENGTH: 41
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Defensin polypeptide
US-10-091-166B-29

Query Match 84.3%; Score 194; DB 14; Length 41;
Best Local Similarity 90.2%; Pred. No. 1.1e-16;
Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 TLQKYYCRVGRCAVLSCLPKKEQIGKSTGRKCCR 41
Db 1 TLQKYYCRVGRCAVLSCLPKKEQIGKSTGRKCCR 41

Search completed: May 17, 2004, 18:11:58
Job time : 29.9412 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: May 17, 2004, 17:49:00 ; Search time 11.2549 Seconds
(without alignments)
188.066 Million cell updates/sec

Title: US-09-872-852-3

Perfect score: 230
Sequence: 1 TLQKRYCVRVGRCAVLSCL.....KEQIGKSTRKRCRRKK 41

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
1: /cgn2_6/ptodata/2/1aa/5A.COMB.pep:*
2: /cgn2_6/ptodata/2/1aa/5B.COMB.pep:*
3: /cgn2_6/ptodata/2/1aa/6A.COMB.pep:*
4: /cgn2_6/ptodata/2/1aa/6B.COMB.pep:*
5: /cgn2_6/ptodata/2/1aa/PTCDS.COMB.pep:*
6: /cgn2_6/ptodata/2/1aa/Backfilltest.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	230	100.0	67	4	US-09-636-399A-10
2	220	95.7	65	4	US-09-636-399A-2
3	194	84.3	41	4	US-09-636-399A-29
4	194	84.3	41	4	US-09-636-399A-51
5	194	84.3	42	4	US-09-636-399A-26
6	194	84.3	42	4	US-09-636-399A-49
7	194	84.3	43	4	US-09-636-399A-23
8	194	84.3	43	4	US-09-636-399A-47
9	194	84.3	44	4	US-09-636-399A-20
10	194	84.3	44	4	US-09-636-399A-45
11	194	84.3	45	4	US-09-636-399A-43
12	194	84.3	46	4	US-09-636-399A-41
13	194	84.3	47	4	US-09-636-399A-39
14	194	84.3	48	4	US-09-636-399A-17
15	194	84.3	49	4	US-09-636-399A-35
16	189	82.2	40	4	US-09-636-399A-30
17	189	82.2	40	4	US-09-636-399A-32
18	189	82.2	40	4	US-09-636-399A-52
19	189	82.2	40	4	US-09-636-399A-53
20	189	82.2	41	4	US-09-636-399A-27
21	189	82.2	41	4	US-09-636-399A-50
22	189	82.2	42	4	US-09-636-399A-24
23	189	82.2	42	4	US-09-636-399A-48
24	189	82.2	43	4	US-09-636-399A-21
25	189	82.2	43	4	US-09-636-399A-46
26	189	82.2	44	4	US-09-636-399A-44
27	189	82.2	44	4	US-09-636-399A-42

28	189	82.2	46	4	US-09-636-399A-40	Sequence 40, Appl
29	189	82.2	47	4	US-09-636-399A-38	Sequence 38, Appl
30	189	82.2	48	4	US-09-636-399A-36	Sequence 36, Appl
31	185	80.4	39	4	US-09-636-399A-19	Sequence 19, Appl
32	185	80.4	39	4	US-09-636-399A-55	Sequence 55, Appl
33	184	80.0	39	4	US-09-636-399A-31	Sequence 31, Appl
34	184	80.0	39	4	US-09-636-399A-33	Sequence 33, Appl
35	184	80.0	39	4	US-09-636-399A-54	Sequence 54, Appl
36	184	80.0	40	4	US-09-636-399A-28	Sequence 28, Appl
37	184	80.0	41	4	US-09-636-399A-25	Sequence 25, Appl
38	184	80.0	42	4	US-09-636-399A-22	Sequence 22, Appl
39	182	79.1	37	4	US-09-636-399A-59	Sequence 59, Appl
40	182	79.1	38	4	US-09-636-399A-18	Sequence 18, Appl
41	180	78.3	38	4	US-09-636-399A-19	Sequence 19, Appl
42	180	78.3	38	4	US-09-636-399A-36	Sequence 36, Appl
43	179	77.8	38	4	US-09-636-399A-34	Sequence 34, Appl
44	177	77.0	36	4	US-09-636-399A-60	Sequence 60, Appl
45	177	77.0	37	4	US-09-636-399A-58	Sequence 58, Appl

ALIGNMENTS

```

RESULT 1
US-09-636-399A-10
; Sequence 10, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baibour, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OR INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; CURRENT FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FASTSEQ for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 67
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-636-399A-10
Query Match      100.0% Score 230; DB 4; Length 67;
Best Local Similarity 100.0%; Pred No. 1.5e-21;
Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY      1 TLQKRYCVRVGRCAVLSCLPKEQIGKSTRKRCRRKK 41
Db      27 TLQKRYCVRVGRCAVLSCLPKEQIGKSTRKRCRRKK 67
RESULT 2
US-09-636-399A-2
; Sequence 2, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baibour, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OR INVENTION: NOVEL BETA-DEFENSINS

```

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FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; CURRENT FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 65
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-636-399A-2
```

```
Query Match          95.7%; Score 220; DB 4; Length 65;
Best Local Similarity 100.0%; Pred. No. 2.4e-20;
Matches 39; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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CY 1 TLQKYCRVRRGRCVAVSLCPKEQIGKSTRGRKCCR 39
DB 27 TLQKYCRVRRGRCVAVSLCPKEQIGKSTRGRKCCR 65
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```
RESULT 3
US-09-636-399A-29
; Sequence 29, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; CURRENT FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 29
; LENGTH: 41
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
US-09-636-399A-29
```

```
Query Match          84.3%; Score 194; DB 4; Length 41;
Best Local Similarity 90.2%; Pred. No. 2.5e-17;
Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
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```
CY 1 TLQKYCRVRRGRCVAVSLCPKEQIGKSTRGRKCCR 41
DB 1 TLQKYCRVRRGRCVAVSLCPKEQIGKSTRGRKCCR 41
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RESULT 4
US-09-636-399A-51
; Sequence 51, Application US/09636399A
; Patent No. 6576755
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```
GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; CURRENT FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 51
; LENGTH: 41
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (37)-(37)
; OTHER INFORMATION: Xaa is Ile, Leu, Phe, Val, or Met
US-09-636-399A-51
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Query Match          84.3%; Score 194; DB 4; Length 41;
Best Local Similarity 90.2%; Pred. No. 2.5e-17;
Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
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```
CY 1 TLQKYCRVRRGRCVAVSLCPKEQIGKSTRGRKCCR 41
DB 1 TLQKYCRVRRGRCVAVSLCPKEQIGKSTRGRKCCR 41
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```
RESULT 5
US-09-636-399A-26
; Sequence 26, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; CURRENT FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 26
; LENGTH: 42
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
US-09-636-399A-26
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Query Match          84.3%; Score 194; DB 4; Length 42;
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Best Local Similarity 90.2%; Pred. No. 2.5e-17;
Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 TLQKYYCVRVGGRCVAVLSCLPKKEQIGKSTRGRKCCRRKK 41
Db 2 TLQKYYCVRVGGRCVAVLSCLPKKEQIGKSTRGRKCCRRKK 42

RESULT 6

US-09-636-399A-49
; Sequence 49, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; CURRENT FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 49
; LENGTH: 42
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (38)...(38)
; OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met
US-09-636-399A-49

Query Match 84.3%; Score 194; DB 4; Length 42;
Best Local Similarity 90.2%; Pred. No. 2.5e-17;
Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 TLQKYYCVRVGGRCVAVLSCLPKKEQIGKSTRGRKCCRRKK 41
Db 2 TLQKYYCVRVGGRCVAVLSCLPKKEQIGKSTRGRKCCRRKK 42

RESULT 7

US-09-636-399A-23
; Sequence 23, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; CURRENT FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399

; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 23
; LENGTH: 43
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
US-09-636-399A-23

RESULT 8

US-09-636-399A-47
; Sequence 47, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; CURRENT FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 47
; LENGTH: 43
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (39)...(39)
; OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met.
US-09-636-399A-47

Query Match 84.3%; Score 194; DB 4; Length 43;
Best Local Similarity 90.2%; Pred. No. 2.6e-17;
Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 TLQKYYCVRVGGRCVAVLSCLPKKEQIGKSTRGRKCCRRKK 41
Db 3 TLQKYYCVRVGGRCVAVLSCLPKKEQIGKSTRGRKCCRRKK 43

US-09-636-399A-20
; Sequence 20, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
US-09-636-399A-20

Query Match 84.3%; Score 194; DB 4; Length 43;
Best Local Similarity 90.2%; Pred. No. 2.6e-17;
Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 TLQKYYCVRVGGRCVAVLSCLPKKEQIGKSTRGRKCCRRKK 41
Db 3 TLQKYYCVRVGGRCVAVLSCLPKKEQIGKSTRGRKCCRRKK 43

US-09-636-399A-20
; Sequence 20, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
US-09-636-399A-20

Query Match 84.3%; Score 194; DB 4; Length 43;
Best Local Similarity 90.2%; Pred. No. 2.6e-17;
Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2
CURRENT APPLICATION NUMBER: US/09/636,399A
CURRENT FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 20
LENGTH: 44
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Defensin Polypeptide
US-09-636-399A-20

Query Match 84.3%; Score 194; DB 4; Length 44;
Best Local Similarity 90.2%; Pred. No. 2,7e-17;
Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Cy 1 TLQKYCRVRGRCALVSLCPKEQIGKSTRGKCRKK 41
Db 4 TLQKYCRVRGRCALVSLCPKEQIGKSTRGKCRKK 44

RESULT 10
US-09-636-399A-45
Sequence 45, Application US/09636399A
Patent No. 6576755
GENERAL INFORMATION:
APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baindur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2
CURRENT APPLICATION NUMBER: US/09/636,399A
CURRENT FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 45
LENGTH: 44
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Defensin polypeptide
NAME/KEY: VARIANT
LOCATION: (40)...(40)
OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, Met.
US-09-636-399A-45

Query Match 84.3%; Score 194; DB 4; Length 44;
Best Local Similarity 90.2%; Pred. No. 2,7e-17;
Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Cy 1 TLQKYCRVRGRCALVSLCPKEQIGKSTRGKCRKK 41
Db 1 TLQKYCRVRGRCALVSLCPKEQIGKSTRGKCRKK 41

Db 4 TLQKYCRVRGRCALVSLCPKEQIGKSTRGKCRKK 44

RESULT 11
US-09-636-399A-43
Sequence 43, Application US/09636399A
Patent No. 6576755
GENERAL INFORMATION:
APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baindur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2
CURRENT APPLICATION NUMBER: US/09/636,399A
CURRENT FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 43
LENGTH: 45
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Defensin polypeptide
NAME/KEY: VARIANT
LOCATION: (41)...(41)
OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met
US-09-636-399A-43

Query Match 84.3%; Score 194; DB 4; Length 45;
Best Local Similarity 90.2%; Pred. No. 2,7e-17;
Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Cy 1 TLQKYCRVRGRCALVSLCPKEQIGKSTRGKCRKK 41
Db 5 TLQKYCRVRGRCALVSLCPKEQIGKSTRGKCRKK 45

RESULT 12
US-09-636-399A-41
Sequence 41, Application US/09636399A
Patent No. 6576755
GENERAL INFORMATION:
APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baindur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2
CURRENT APPLICATION NUMBER: US/09/636,399A
CURRENT FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 41
LENGTH: 46

TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Defensin polypeptide
NAME/KEY: VARIANT
LOCATION: (42)...(42)
OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met
US-09-636-399A-41

Query Match 84.3%; Score 194; DB 4; Length 46;
Best Local Similarity 90.2%; Pred. No. 2.8e-17;
Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 TLQKYCRVGRGCAVLSCLPKKEQIGKSTRGRKCCRRK 41
DB 6 TLQLYCRVRGRCVAVLSCLPKKECIGKSTRGRKCCRRK 46

RESULT 13

US-09-636-399A-39
Sequence 39, Application US/09636399A
Patent No. 6576755
GENERAL INFORMATION:
APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baidur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2
CURRENT APPLICATION NUMBER: US/09/636,399A
CURRENT FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 39
LENGTH: 47
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Defensin polypeptide
NAME/KEY: VARIANT
LOCATION: (43)...(43)
OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met
US-09-636-399A-39

Query Match 84.3%; Score 194; DB 4; Length 47;
Best Local Similarity 90.2%; Pred. No. 2.8e-17;
Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 TLQKYCRVGRGCAVLSCLPKKEQIGKSTRGRKCCRRK 41
DB 7 TLQLYCRVRGRCVAVLSCLPKKECIGKSTRGRKCCRRK 47

RESULT 14

US-09-636-399A-37
Sequence 37, Application US/09636399A
Patent No. 6576755
GENERAL INFORMATION:
APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baidur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS

FILE REFERENCE: 97-44C2
CURRENT APPLICATION NUMBER: US/09/636,399A
CURRENT FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 37
LENGTH: 48
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Defensin polypeptide
NAME/KEY: VARIANT
LOCATION: (44)...(44)
OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met
US-09-636-399A-37

Query Match 84.3%; Score 194; DB 4; Length 48;
Best Local Similarity 90.2%; Pred. No. 2.9e-17;
Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 TLQKYCRVGRGCAVLSCLPKKEQIGKSTRGRKCCRRK 41
DB 8 TLQLYCRVRGRCVAVLSCLPKKECIGKSTRGRKCCRRK 48

RESULT 15

US-09-636-399A-35
Sequence 35, Application US/09636399A
Patent No. 6576755
GENERAL INFORMATION:
APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baidur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2
CURRENT APPLICATION NUMBER: US/09/636,399A
CURRENT FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 35
LENGTH: 49
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Defensin polypeptide
NAME/KEY: VARIANT
LOCATION: (45)...(45)
OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met
US-09-636-399A-35

Query Match 84.3%; Score 194; DB 4; Length 49;
Best Local Similarity 90.2%; Pred. No. 2.9e-17;
Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 TLQKYCRVGRGCAVLSCLPKKEQIGKSTRGRKCCRRK 41

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Db 9 T|Q|Y|C|R|V|G|G|R|C|A|V|L|S|C|I|P|K|E|C|I|G|K|M|S|R|G|R|K|C|X|R|R|K 49

Search completed: May 17, 2004, 18:00:27
Job time : 12.2549 secs